

U.S. Patent Application Serial No. 10/087,449

**RECEIVED
CENTRAL FAX CENTER**

Amendments to the Claims:**SEP 15 2008**

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method of programming an ambulatory infusion pump from a computer, the ambulatory infusion pump programmed to execute a delivery program, the delivery program being driven by operating parameters, the method comprising:
generating a table on a user-interface displayed by the computer the computer having a computer peripheral, the table containing a row, the row having a plurality of cells, each cell in the row relating to a different operating parameter for the delivery program;
entering receiving an operating parameter entered into at least one of the cells by a user in the table, the operating parameter being entered directly into the at least one of the cells through the computer peripheral; and
downloading the operating parameters into the pump.
2. (Original) The method of claim 1 wherein the table includes a plurality of rows, each row relating to a different set of operating parameters, each set of operating parameters defining a different delivery schedule for the pump.
3. (Original) The method of claim 2 wherein at least one cell within each row is configured for a unique identifying name, wherein the unique identifying name identifies the operating parameters in the same row of as the unique identifying name.
4. (Original) The method of claim 3 wherein the pump has memory and runs a delivery program and downloading the operating parameters includes downloading the operating parameters into the pump includes downloading the operating parameters into the memory.

U.S. Patent Application Serial No. 10/087,449

5. (Original) The method of claim 4 wherein the pump is programmed to run a delivery program, the method further comprising running the delivery program, thereby executing the operating parameters.
6. (Original) The method of claim 3 wherein the pump has memory and is programmed to run a delivery program, the method further comprising:
downloading all rows of operating parameters to the infusion pump; and
storing the operating parameters in the memory.
7. (Original) The method of claim 6 further comprising:
selecting one unique identifying name; and
running the delivery program wherein the delivery program executes the operating parameters identified by the selected unique identifying name.
8. (Currently Amended) A method of operating a pump, the pump having a memory and a pump mechanism, the method comprising:
receiving from a computer, a plurality of data sets, each data set in the plurality of data sets containing a plurality of operating parameters, wherein each data set in the plurality of data sets contains the same type of operating parameters and at least two of the data sets contain different values for the same type of operating parameter;
storing the plurality of data sets in memory;
selecting one of the plurality of data sets; and
running a delivery program wherein the delivery program executes the operating parameters in the selected one of the plurality of data sets, the operating parameters defining a delivery schedule for controlling the pump mechanism.
9. (Currently Amended) An apparatus for programming an infusion pump, the pump programmed to execute a delivery program, the delivery program programmed to process operating parameters, the operating parameters defining operating of the pump, the apparatus comprising:

U.S. Patent Application Serial No. 10/087,449

a data port;
a data entry device; and
a processor in data communication with the data port and the data entry device, the processor programmed to (a) generate a table on a user interface, the table containing a row, the row having a plurality of cells, each cell in the row relating to a different operating parameter for the delivery program; (b) receive data directly from the data entry device and display the data in one or more of the cells; and (c) download the operating parameters displayed in the cells to the infusion pump.

10. (Original) The apparatus of claim 9 wherein the processor is further programmed to generate a plurality of rows in the table, each row relating to a different set of operating parameters, each set of operating parameters defining a different delivery schedule for the pump.

11. (Original) The apparatus of claim 10 wherein each row in the table includes at least one cell configured to receive a unique identifying name, wherein the unique identifying name identifies the operating parameters in the same row as the unique identifying name.

12. (Previously Amended) A method of operating an infusion pump for delivering a therapeutic agent into the body of a user, the infusion pump being programmable and including memory, the infusion pump being programmed to run a delivery program, the delivery program controlling the infusion pump to deliver the therapeutic agent according to a delivery schedule, the method comprising:

storing a data set in the memory, the data set including a set of operating parameters defining a delivery schedule, at least one of the operating parameters being a user-defined identifying name;
selecting the user-defined identifying name thereby assigning the set of operating parameters identified by the user-defined identifying name to the delivery program; and

U.S. Patent Application Serial No. 10/087,449

running the delivery program, the delivery program executing the set of operating parameters thereby controlling the infusion pump to deliver the therapeutic agent according to the delivery schedule defined by the set of operating parameters.

13. (Original) The method of claim 12 further comprising downloading the data set to the pump from a computer.

14. (Original) The method of claim 12 wherein storing a data set in the memory, includes storing two or more data sets in the memory, each data set including a set of operating parameters defining a delivery schedule.

15. (Previously Amended) The method of claim 14 further comprising:
generating a menu, the menu including at least one menu item corresponding to one of the user-defined identifying names; and
wherein selecting the user-defined identifying name includes selecting the menu item.

16. (Original) The method of claim 12 wherein storing a data set in the memory includes storing a plurality of data sets in memory, each data set including a set of operating parameters defining a separate delivery schedule.

17. (Previously Amended) The method of claim 16 wherein generating a menu includes generating a menu having at least one menu item corresponding to a user-defined identifying name from one data set and at least one menu item corresponding to a user-defined identifying name from another data set.

18. (Original) The method of claim 17 further comprising switching execution of the delivery program from the set of operating parameters in one data set to the set of operating parameters in another data set.

19. (Previously Amended) An infusion pump comprising:
a pump mechanism;

U.S. Patent Application Serial No. 10/087,449

memory storing a data set, the data set including a set of operating parameters defining a delivery schedule, at least one of the operating parameters being a user-defined identifying name; and

a processor arranged to control the pump mechanism and in data communication with the memory, the processor being programmed to assign the set of operating parameters to the delivery program upon selection of the uniquely identifying name and to execute the set of operating parameters thereby controlling the pump mechanism to deliver the therapeutic agent according to the delivery schedule.

20. (Original) The infusion pump of claim 19 further comprising a data port, the processor being further arranged to control downloading of the data set and storage of the data set into the memory.

21. (Original) The infusion pump of claim 19 wherein the memory stores two or more data sets in the memory, each data set including a set of operating parameters defining a delivery schedule.

22. (Previously Amended) The infusion pump of claim 21 wherein the processor is further programmed to generate a menu, the menu including at least one menu item corresponding to one of the user-defined identifying names, wherein selecting the menu item is at least one step in beginning execution of the delivery program.

23. (Original) The infusion pump of claim 19 wherein the memory stores two or more data sets, each data set including a set of operating parameters defining a separate delivery schedule.

24. (Previously Amended) The infusion pump of claim 23 wherein the processor is further programmed to generate a menu, the menu including at least one menu item corresponding to a user-defined identifying name from one data set and at least one user-defined identifying name from another data set.

U.S. Patent Application Serial No. 10/087,449

25. (Original) The infusion pump of claim 24 wherein the processor is further programmed to switch execution of the delivery program from the set of operating parameters in one data set to the set of operating parameters in another data set.